



Morton Salt
100 North Riverside Plaza Chicago, IL 60606-1597

Material Safety Data Sheet

Emergency Phone Number: 312/807-2000

Product Identification

Chemical Name: Sodium Chloride

Common Name: Salt

CAS Number: 7647-14-5

Product Use: Water Softening

Product Name: White Crystal Brine Block

Chemical Formula: NaCl

Hazardous Ingredients

Chemical Name	Common Name	CAS Number	%	OSHA PEL	ACGIH TLV-TWA
None					

Physical Data

Boiling Point (760mm Hg)	<u>1413 °C (2575 °F)</u>	Specific Gravity (Water = 1)	<u>2.165</u>
Vapor Pressure (mm Hg)	<u>None @ 865 °C (1589 °F)</u>	% Non-Volatile	<u>100</u>
Vapor Density (Air = 1)	<u>N/A</u>	Evaporation Rate (Ether = 1)	<u>N/A</u>
Solubility in Water	<u>36g/100cc water at 20 °C (68 °F)</u>	pH	<u>About 7</u>
Appearance	<u>White Block</u>	Odor	<u>None</u>

Fire and Explosion Hazard Data

Flash Point N/A °F Flammable Limits Lel N/A Uel N/A

Method Used:

Product is non-combustible

Extinguishing Media:

None required

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

None

Hazardous Decomposition Products:

None

Health Hazard Data

Oral Toxicity:

Oral rat LD50: 3000 mg/kg (RTECS, 1986)

Dermal Toxicity:

Skin irritation rabbit: 500mg/24hr. Mild (RTECS, 1986)

Eye:

Eye irritation rabbit: 100mg/24hr. Moderate (RTECS, 1986)

Inhalation:

No information found.

Chronic Toxicity:

No information found

Mutagenesis:

Mutation references cited (RTECS, 1986)

Effects of Overexposure:

Ingestion: *Very large doses can cause vomiting, diarrhea, and prostration.*

Skin Contact: *Not expected to be a health hazard.*

Eye Contact: *May cause irritation.*

Inhalation: *Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat.*

Acute Systemic Effects:

Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

Chronic Systemic Effects:

No information found.

Emergency and First Aid Procedures

Eye Contact: *Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.*

Skin Contact: *Wash exposed area with soap and water. Get medical advice if irritation develops.*

Inhalation: *Remove to fresh air. Get medical attention for any breathing difficulty.*

Ingestion: *If large amounts were swallowed, get medical advice.*

Reactivity Data

Stability ☒ Stable ☐ Unstable Conditions to Avoid:

Incompatibility: (Materials to Avoid)

Stable and inert under normal conditions.

Will react with strong acids (to generate HCl) and strong oxidizing agents (to generate Cl₂).

Can Hazardous Polymerization Occur:

No

Hazardous Decomposition Products and Conditions:

None

Spill or Leak Procedures

Response to Small Spills:

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Response to Large Spills:

Shovel and sweep up; containerize for reclamation or disposal.

Hazards to be Avoided:

None known.

Reportable Quantity:

Check your state for requirements.

Waste Classification:

Some states have set maximum limits on Chlorides in waste effluent.

Disposal Methods:

Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility, or if local ordinances allow, can be dissolved in sufficient amounts of water to meet water quality standards, and flushed down a sewer drain. Ensure compliance with local, state and federal regulations.

Special Protection Information

Respiratory Protection:

For conditions of use where exposure to the dust is apparent, a NIOSH approved dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

For Hands, Body:

If deemed necessary, wear protective gloves and clean body-covering clothing.

For Eyes:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Ventilation:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Special Precautions

Other Precautions:

Transport in dry equipment; store in dry location.

Labeling Information

DOT Shipping Name:

Salt (common), sodium chloride

DOT Label:

Not applicable

UN No.:

Not applicable

Other Contents of Product Label:

Not applicable

Warning:

None

Users Responsibility

*The responsibility to provide a safe workplace remains with the user.
The user should consider the health hazards and safety information contained herein
as a guide and should take those precautions required in an individual operation
to instruct employees and develop work practice procedures for a safe work environment.*

Disclaimer of Liability

*The information contained herein is, to the best of our knowledge and belief, accurate.
However, since the conditions of handling and use are beyond our control, we make no
guarantee of results, and assume no liability for damages incurred by use of this material.
It is the responsibility of the user to comply with all applicable federal, state, and local laws
and regulations. Nothing contained herein is to be construed as a recommendation
for use in violation of any patents or of applicable laws or regulations.*



Morton Salt

100 North Riverside Plaza Chicago, IL 60606-1597 312/807-2000

Form 1220A Rev. 3/93